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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/679,701	10/03/2003	Allen Carroll	MLSE 1035-1	9625
22470 7590 10/03/2005			EXAMINER	
HAYNES B	EFFEL & WOLFELD	CHACKO DAVIS, DABORAH		
	JBAY, CA 94019	ART UNIT	PAPER NUMBER	
	•		1756	

DATE MAILED: 10/03/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)
Office Action Summary		10/679,701	CARROLL, ALLEN
		Examiner	Art Unit
		Daborah Chacko-Davis	1756
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet	with the correspondence address
WHIC - Exter after - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Poperiod for reply is specified above, the maximum statutory period we re to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUN 36(a). In no event, however, may rill apply and will expire SIX (6) M cause the application to become	IICATION. a reply be timely filed DNTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).
Status			
2a)□	Responsive to communication(s) filed on <u>03 Oct</u> This action is FINAL . 2b)⊠ This Since this application is in condition for allowant closed in accordance with the practice under E	action is non-final.	• •
Dispositi	ion of Claims	,	
5)□ 6)⊠ 7)□	Claim(s) 1-28 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 1-28 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	vn from consideration.	
Applicati	on Papers		
10)□	The specification is objected to by the Examiner The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the correction drawing sheet(s) including the correction to the oath or declaration is objected to by the Example 1.	epted or b) objected t drawing(s) be held in abey on is required if the drawir	ance. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.121(d).
Priority u	ınder 35 U.S.C. § 119		
12) <u></u> a)[Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau See the attached detailed Office action for a list of	s have been received. s have been received in ity documents have been t (PCT Rule 17.2(a)).	Application No In received in this National Stage
Attachmen	t(s)		
1) Notic 2) Notic 3) Inforr	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	Paper N	r Summary (PTO-413) o(s)/Mail Date i Informal Patent Application (PTO-152)

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- Claims 11-16, 20-22, are rejected under 35 U.S.C. 102(e) as being anticipated by
 S. Patent Application Publication No. 2004/00075895 (Lin).

Lin, in the abstract, in [0001], [0002], [0012], [0013], [0014], [0015], [0017], [0026], [0027], [0031], [0032], [0033], discloses an immersion lithography system that patterns a photosensitive material coated substrate by exposing the photosensitive material coated wafer to EUV radiation (excimer laser) through a mask, wherein an immersion medium is provided in the gap between the imaging lens (immersion fluid in contact with the lens) and the top surface of the wafer; supplying the immersion fluid (provided by an internal cavity, reservoir) through a fluid passageway (an inlet) provided in the immersion apparatus, wherein the immersion fluid supply means includes a filter means (porous material) that is submerged in the fluid medium, and a fluid removal means (outlet) to remove the fluid medium from the apparatus (claims 11-16, and 20-22).

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Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-10, 17-19, 23-28, are rejected under 35 U.S.C. 103(a) as being unpatentable over U. S. Patent Application Publication No. 2004/00075895 (Lin) in view of U. S. Patent Application Publication No. 2003/0123040 (Almogy).

Lin, in the abstract, in [0001], [0002], [0012], [0013], [0014], [0015], [0017], [0026], [0027], [0031], [0032], [0033], discloses an immersion lithography system that patterns a photosensitive material coated substrate by exposing the photosensitive material coated wafer to EUV radiation (excimer laser) through a mask, wherein an immersion medium is provided in the gap between the imaging lens (immersion fluid in contact with the lens) and the top surface of the wafer; supplying the immersion fluid (provided by an internal cavity, reservoir) through a fluid passageway (an inlet) provided in the immersion apparatus, wherein the immersion fluid supply means includes a filter means (porous material) that is submerged in the fluid medium, and a fluid removal means (outlet) to remove the fluid medium from the apparatus (claims 1, 6-10, 17-19, and 23-28).

The difference between the claims and Lin is that Lin does not disclose that a modulator is adapted to modulate and relay the electromagnetic radiation, in accordance to an input pattern description, to the workpiece. Lin does not disclose that

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the modulator is an SLM, and includes reflective pixels such as micromirrors (claims 2-

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4). Lin does not disclose that the modulator is an acoustooptical modulator (claim 5).

Almogy, in [0011], [0017], [0031], and [0032], discloses using a modulator that modulates light (electromagnetic radiation) in response to an input signal provided by a programmable image generator, wherein the modulator is a spatial light modulator that comprises pixels (micromirrors). Almogy, in [0058], and [0060], discloses using rotating mirrors (changing the angle of the mirrors to change the angle of the light in the focusing optics) to modulate the light beams and to focus the light beams onto the resist.

Therefore, it would be obvious to a skilled artisan to modify Lin by replacing the mask with a light modulator as suggested by Almogy because Almogy, in [0038], discloses that employing the suggested modulating lens is less expensive and requires no magnification.

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daborah Chacko-Davis whose telephone number is (571) 272-1380. The examiner can normally be reached on M-F 9:30 - 6:00. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark F Huff can be reached on (571) 272-1385. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300. Information regarding the status of an application may be obtained from the Patent

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dcd

September 29, 2005

JOHN A. MCPHERSON PRIMARY EXAMINER

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